Diagram
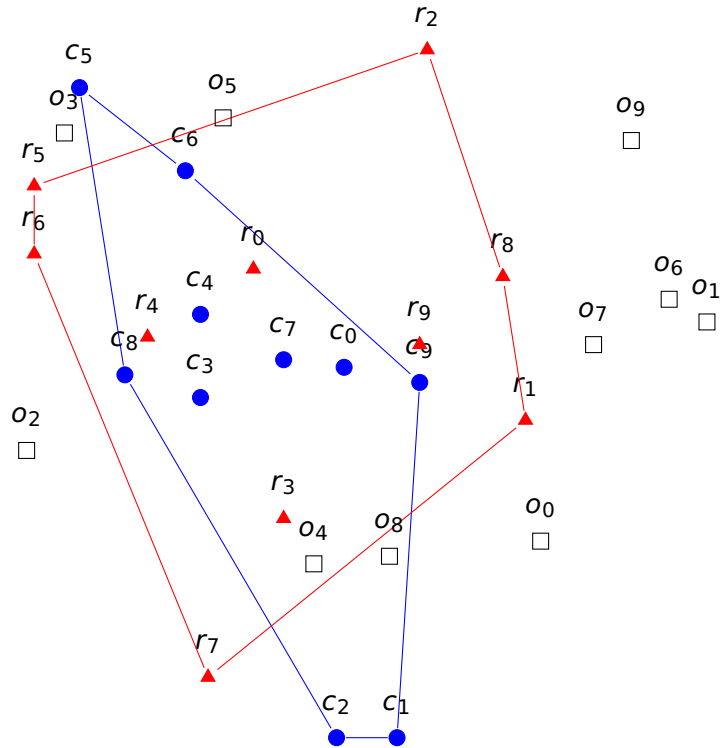

Input
```
10 10 10
(51/10,53/10)
(58/10,4/10)
(50/10,4/10)
(32/10,49/10)
(32/10,60/10)
(16/10,90/10)
(30/10,79/10)
(43/10,54/10)
(22/10,52/10)
(61/10,51/10)
(39/10,66/10)
(75/10,46/10)
(62/10,95/10)
(43/10,33/10)
(25/10,57/10)
(10/10,77/10)
(10/10,68/10)
(33/10,12/10)
(72/10,65/10)
(61/10,56/10)
(77/10,30/10)
(99/10,59/10)
(9/10,42/10)
(14/10,84/10)
(47/10,27/10)
```

```
(35/10,86/10)
(94/10,62/10)
(84/10,56/10)
(57/10,28/10)
(89/10,83/10)
```
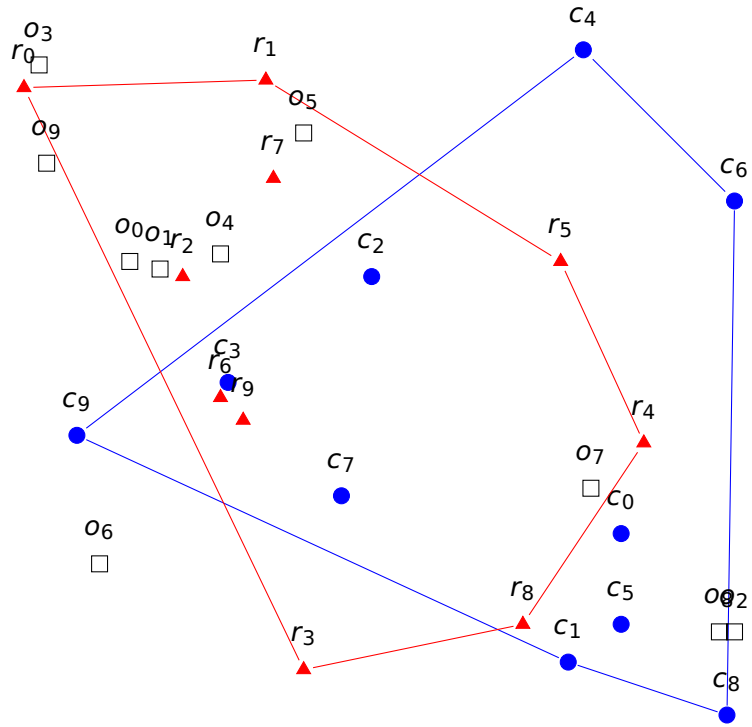
Output
Safe: 2
Robbed: 0
In danger: 8

▷*testB*

Diagram

Input
```
10 10 10
(83/10,33/10)
(76/10,16/10)
(50/10,67/10)
(31/10,53/10)
(78/10,97/10)
(83/10,21/10)
(98/10,77/10)
(46/10,38/10)
(97/10,9/10)
(11/10,46/10)
(4/10,92/10)
(36/10,93/10)
(25/10,67/10)
(41/10,15/10)
(86/10,45/10)
(75/10,69/10)
(30/10,51/10)
(37/10,80/10)
(70/10,21/10)
(33/10,48/10)
(18/10,69/10)
(22/10,68/10)
(98/10,20/10)
(6/10,95/10)
(30/10,70/10)
```

```
(41/10,86/10)
(14/10,29/10)
(79/10,39/10)
(96/10,20/10)
(7/10,82/10)
```
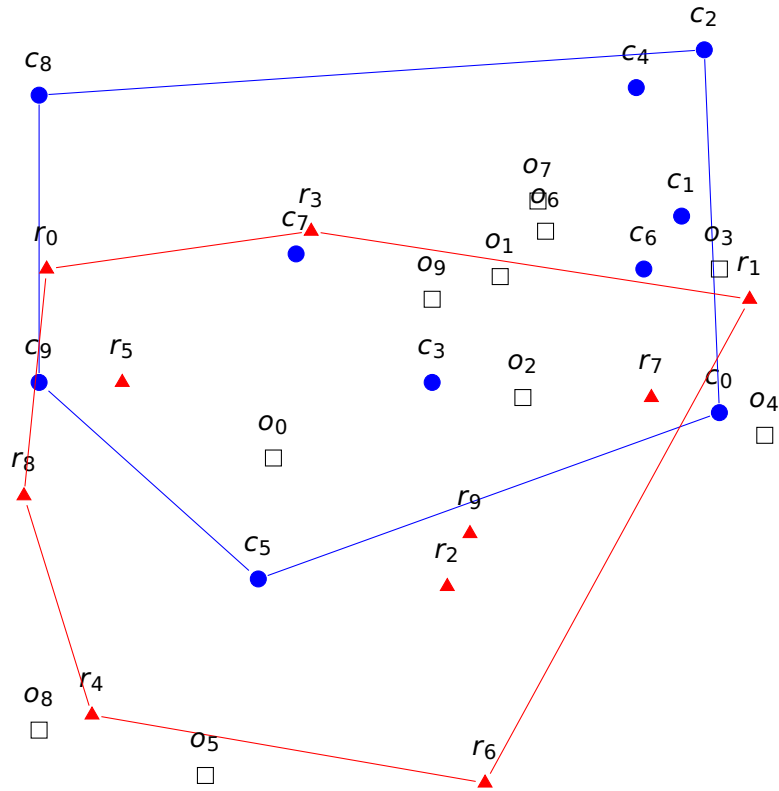
Output
Safe: 2
Robbed: 4
In danger: 4

Diagram

Input
```
10 10 10
(93/10,51/10)
(88/10,77/10)
(91/10,99/10)
(55/10,55/10)
(82/10,94/10)
(32/10,29/10)
(83/10,70/10)
(37/10,72/10)
(3/10,93/10)
(3/10,55/10)
(4/10,70/10)
(97/10,66/10)
(57/10,28/10)
(39/10,75/10)
(10/10,11/10)
(14/10,55/10)
(62/10,2/10)
(84/10,53/10)
(1/10,40/10)
(60/10,35/10)
(34/10,45/10)
(64/10,69/10)
(67/10,53/10)
```

```
(93/10,70/10)
(99/10,48/10)
(25/10,3/10)
(70/10,75/10)
(69/10,79/10)
(3/10,9/10)
(55/10,66/10)
```
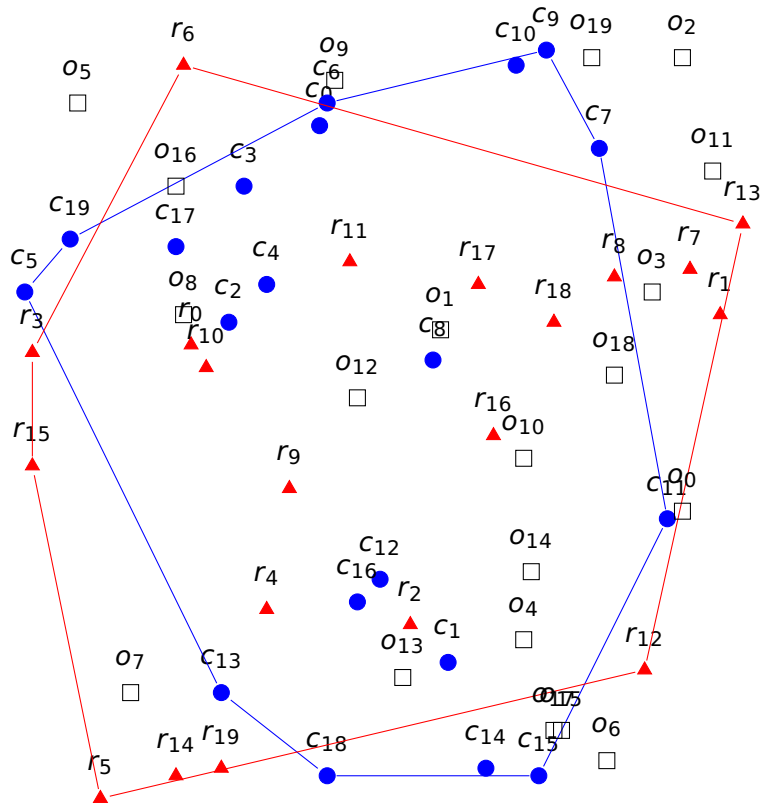
Output
Safe: 6
Robbed: 0
In danger: 4

▸testD

Diagram

Input
```
20 20 20
(40/10,89/10)
(57/10,18/10)
(28/10,63/10)
(30/10,81/10)
(33/10,68/10)
(1/10,67/10)
(41/10,92/10)
(77/10,86/10)
(55/10,58/10)
(70/10,99/10)
(66/10,97/10)
(86/10,37/10)
(48/10,29/10)
(27/10,14/10)
(62/10,4/10)
(69/10,3/10)
(45/10,26/10)
(21/10,73/10)
(41/10,3/10)
(7/10,74/10)
(23/10,60/10)
(93/10,64/10)
(52/10,23/10)
```

```
(2/10,59/10)
(33/10,25/10)
(11/10,0/10)
(22/10,97/10)
(89/10,70/10)
(79/10,69/10)
(36/10,41/10)
(25/10,57/10)
(44/10,71/10)
(83/10,17/10)
(96/10,76/10)
(21/10,3/10)
(2/10,44/10)
(63/10,48/10)
(61/10,68/10)
(71/10,63/10)
(27/10,4/10)
(88/10,38/10)
(56/10,62/10)
(88/10,98/10)
(84/10,67/10)
(67/10,21/10)
(8/10,92/10)
(78/10,5/10)
(15/10,14/10)
(22/10,64/10)
(42/10,95/10)
(67/10,45/10)
(92/10,83/10)
(45/10,53/10)
(51/10,16/10)
(68/10,30/10)
(72/10,9/10)
(21/10,81/10)
(71/10,9/10)
(79/10,56/10)
(76/10,98/10)
```
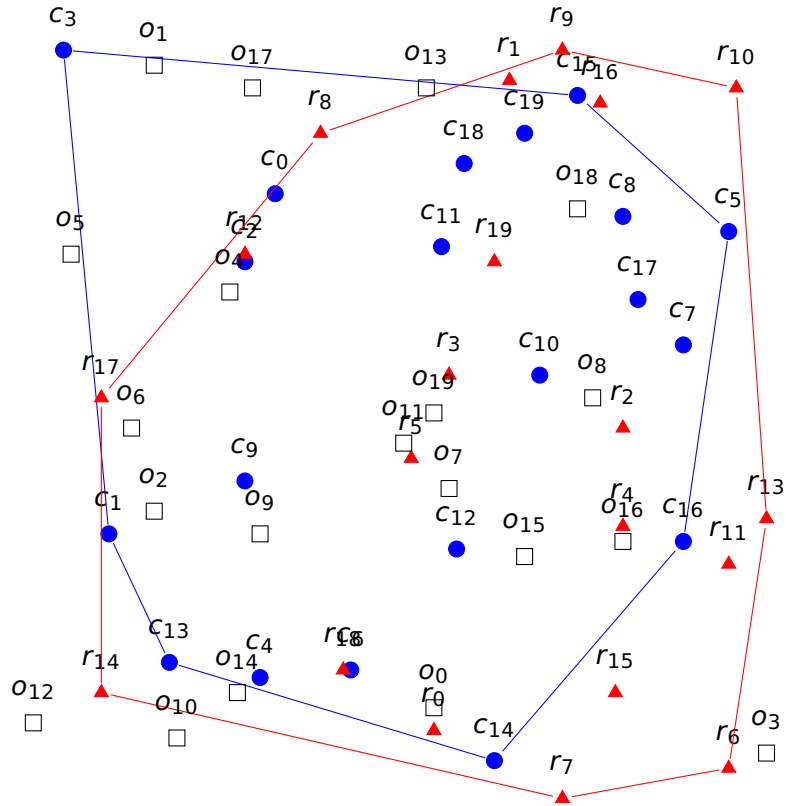
Output
Safe: 11
Robbed: 2
In danger: 7

Diagram

Input
```
20 20 20
(32/10,80/10)
(10/10,35/10)
(28/10,71/10)
(4/10,99/10)
(30/10,16/10)
(92/10,75/10)
(42/10,17/10)
(86/10,60/10)
(78/10,77/10)
(28/10,42/10)
(67/10,56/10)
(54/10,73/10)
(56/10,33/10)
(18/10,18/10)
(61/10,5/10)
(72/10,93/10)
(86/10,34/10)
(80/10,66/10)
(57/10,84/10)
(65/10,88/10)
(53/10,9/10)
(63/10,95/10)
(78/10,49/10)
```

```
(55/10,56/10)
(78/10,36/10)
(50/10,45/10)
(92/10,4/10)
(70/10,0/10)
(38/10,88/10)
(70/10,99/10)
(93/10,94/10)
(92/10,31/10)
(28/10,72/10)
(97/10,37/10)
(9/10,14/10)
(77/10,14/10)
(75/10,92/10)
(9/10,53/10)
(41/10,17/10)
(61/10,71/10)
(53/10,12/10)
(16/10,97/10)
(16/10,38/10)
(97/10,6/10)
(26/10,67/10)
(5/10,72/10)
(13/10,49/10)
(55/10,41/10)
(74/10,53/10)
(30/10,35/10)
(19/10,8/10)
(49/10,47/10)
(0/10,10/10)
(52/10,94/10)
(27/10,14/10)
(65/10,32/10)
(78/10,34/10)
(29/10,94/10)
(72/10,78/10)
(53/10,51/10)
```
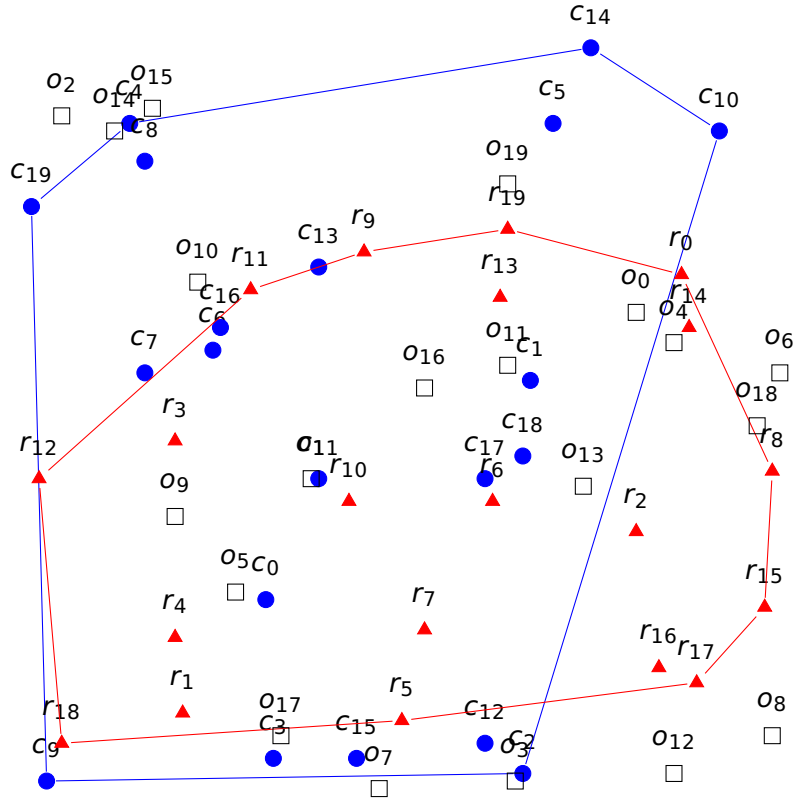
Output
Safe: 15
Robbed: 1
In danger: 4

▷testF

Diagram

Input
```
20 20 20
(31/10,26/10)
(66/10,55/10)
(65/10,3/10)
(32/10,5/10)
(13/10,89/10)
(69/10,89/10)
(24/10,59/10)
(15/10,56/10)
(15/10,84/10)
(2/10,2/10)
(91/10,88/10)
(38/10,42/10)
(60/10,7/10)
(38/10,70/10)
(74/10,99/10)
(43/10,5/10)
(25/10,62/10)
(60/10,42/10)
(65/10,45/10)
(0/10,78/10)
(86/10,69/10)
(20/10,11/10)
(80/10,35/10)
```

```
(19/10,47/10)
(19/10,21/10)
(49/10,10/10)
(61/10,39/10)
(52/10,22/10)
(98/10,43/10)
(44/10,72/10)
(42/10,39/10)
(29/10,67/10)
(1/10,42/10)
(62/10,66/10)
(87/10,62/10)
(97/10,25/10)
(83/10,17/10)
(88/10,15/10)
(4/10,7/10)
(63/10,75/10)
(80/10,64/10)
(37/10,42/10)
(4/10,90/10)
(64/10,2/10)
(85/10,60/10)
(27/10,27/10)
(99/10,56/10)
(46/10,1/10)
(98/10,8/10)
(19/10,37/10)
(22/10,68/10)
(63/10,57/10)
(85/10,3/10)
(73/10,41/10)
(11/10,88/10)
(16/10,91/10)
(52/10,54/10)
(33/10,8/10)
(96/10,49/10)
(63/10,81/10)
```
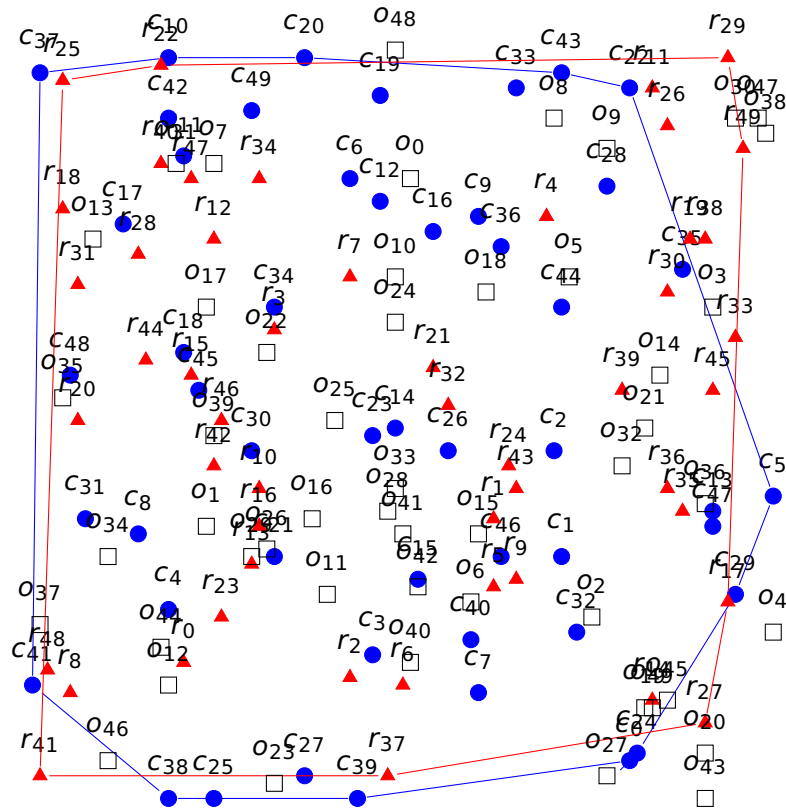
Output
Safe: 10
Robbed: 1
In danger: 9

Diagram

Input
```
50 50 50
(80/10,5/10)
(71/10,32/10)
(70/10,46/10)
(46/10,19/10)
(19/10,25/10)
(99/10,40/10)
(43/10,82/10)
(60/10,14/10)
(15/10,35/10)
(60/10,77/10)
(19/10,98/10)
(21/10,85/10)
(47/10,79/10)
(91/10,38/10)
(49/10,49/10)
(52/10,29/10)
(54/10,75/10)
(13/10,76/10)
(21/10,59/10)
(47/10,93/10)
(37/10,98/10)
(33/10,32/10)
(80/10,94/10)
```

```
(46/10,48/10)
(81/10,6/10)
(25/10,0/10)
(56/10,46/10)
(37/10,3/10)
(77/10,81/10)
(94/10,27/10)
(30/10,46/10)
(8/10,37/10)
(73/10,22/10)
(65/10,94/10)
(33/10,65/10)
(87/10,70/10)
(63/10,73/10)
(2/10,96/10)
(19/10,0/10)
(44/10,0/10)
(59/10,21/10)
(1/10,15/10)
(19/10,90/10)
(71/10,96/10)
(71/10,65/10)
(23/10,54/10)
(63/10,32/10)
(91/10,36/10)
(6/10,56/10)
(30/10,91/10)
(21/10,18/10)
(62/10,37/10)
(43/10,16/10)
(33/10,62/10)
(69/10,77/10)
(62/10,28/10)
(50/10,15/10)
(43/10,69/10)
(6/10,14/10)
(65/10,29/10)
(31/10,41/10)
(83/10,94/10)
(25/10,74/10)
(30/10,31/10)
(83/10,13/10)
(22/10,56/10)
(31/10,36/10)
(93/10,26/10)
(5/10,78/10)
(88/10,74/10)
(7/10,50/10)
(54/10,57/10)
(18/10,97/10)
(26/10,24/10)
(64/10,44/10)
(5/10,95/10)
(85/10,89/10)
```

```
(90/10,10/10)
(15/10,72/10)
(93/10,98/10)
(85/10,67/10)
(7/10,68/10)
(56/10,52/10)
(94/10,61/10)
(31/10,82/10)
(87/10,38/10)
(85/10,41/10)
(48/10,3/10)
(90/10,74/10)
(79/10,54/10)
(18/10,84/10)
(2/10,3/10)
(25/10,44/10)
(65/10,41/10)
(16/10,58/10)
(91/10,54/10)
(26/10,50/10)
(22/10,82/10)
(3/10,17/10)
(95/10,86/10)
(51/10,82/10)
(24/10,36/10)
(75/10,24/10)
(91/10,65/10)
(99/10,22/10)
(72/10,69/10)
(59/10,26/10)
(25/10,84/10)
(70/10,90/10)
(77/10,86/10)
(49/10,69/10)
(40/10,27/10)
(19/10,15/10)
(9/10,74/10)
(84/10,56/10)
(60/10,35/10)
(38/10,37/10)
(24/10,65/10)
(61/10,67/10)
(82/10,12/10)
(90/10,6/10)
(82/10,49/10)
(32/10,59/10)
(33/10,2/10)
(49/10,63/10)
(41/10,50/10)
(32/10,33/10)
(77/10,3/10)
(48/10,38/10)
(30/10,32/10)
(94/10,90/10)
```

```
(20/10,84/10)
(79/10,44/10)
(49/10,41/10)
(11/10,32/10)
(5/10,53/10)
(90/10,39/10)
(2/10,23/10)
(98/10,88/10)
(25/10,48/10)
(51/10,18/10)
(50/10,35/10)
(52/10,28/10)
(90/10,0/10)
(18/10,20/10)
(85/10,13/10)
(11/10,5/10)
(97/10,90/10)
(49/10,99/10)
(83/10,12/10)
```
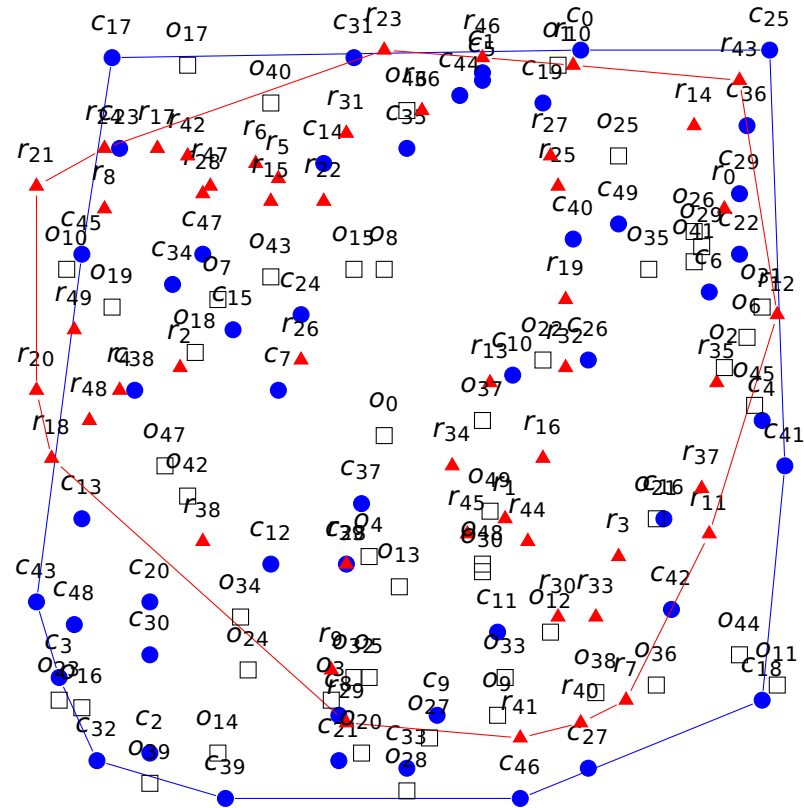
Output
Safe: 40
Robbed: 3
In danger: 7

▹testH

Diagram

Input
```
50 50 50
(72/10,99/10)
(59/10,96/10)
(15/10,6/10)
(3/10,16/10)
(96/10,50/10)
(59/10,95/10)
(89/10,67/10)
(32/10,54/10)
(40/10,11/10)
(53/10,11/10)
(63/10,56/10)
(61/10,22/10)
(31/10,31/10)
(6/10,37/10)
(38/10,84/10)
(26/10,62/10)
(83/10,37/10)
(10/10,98/10)
(96/10,13/10)
(67/10,92/10)
(15/10,26/10)
(40/10,5/10)
(93/10,72/10)
```

```
(11/10,86/10)
(35/10,64/10)
(97/10,99/10)
(73/10,58/10)
(73/10,4/10)
(41/10,31/10)
(93/10,80/10)
(15/10,19/10)
(42/10,98/10)
(8/10,5/10)
(49/10,4/10)
(18/10,68/10)
(49/10,86/10)
(94/10,89/10)
(43/10,39/10)
(13/10,54/10)
(25/10,0/10)
(71/10,74/10)
(99/10,44/10)
(84/10,25/10)
(0/10,26/10)
(56/10,93/10)
(6/10,72/10)
(64/10,0/10)
(22/10,72/10)
(5/10,23/10)
(77/10,76/10)
(91/10,78/10)
(62/10,37/10)
(19/10,57/10)
(77/10,32/10)
(11/10,54/10)
(32/10,82/10)
(29/10,84/10)
(78/10,13/10)
(9/10,78/10)
(39/10,17/10)
(71/10,97/10)
(89/10,35/10)
(98/10,64/10)
(60/10,55/10)
(87/10,89/10)
(31/10,79/10)
(67/10,45/10)
(16/10,86/10)
(2/10,45/10)
(70/10,66/10)
(0/10,54/10)
(0/10,81/10)
(38/10,79/10)
(46/10,99/10)
(9/10,86/10)
(69/10,81/10)
(35/10,58/10)
```

```
(68/10,85/10)
(22/10,80/10)
(41/10,10/10)
(69/10,24/10)
(41/10,88/10)
(70/10,57/10)
(74/10,24/10)
(55/10,44/10)
(90/10,55/10)
(51/10,91/10)
(88/10,41/10)
(22/10,34/10)
(41/10,31/10)
(72/10,10/10)
(64/10,8/10)
(20/10,85/10)
(93/10,95/10)
(65/10,34/10)
(57/10,35/10)
(59/10,98/10)
(23/10,81/10)
(7/10,50/10)
(5/10,62/10)
(46/10,48/10)
(69/10,97/10)
(91/10,57/10)
(39/10,13/10)
(44/10,32/10)
(44/10,16/10)
(94/10,61/10)
(24/10,66/10)
(46/10,70/10)
(61/10,11/10)
(4/10,70/10)
(98/10,15/10)
(68/10,22/10)
(48/10,28/10)
(24/10,6/10)
(42/10,70/10)
(6/10,12/10)
(20/10,97/10)
(21/10,59/10)
(10/10,65/10)
(43/10,6/10)
(82/10,37/10)
(67/10,58/10)
(3/10,13/10)
(28/10,17/10)
(77/10,85/10)
(87/10,75/10)
(52/10,8/10)
(49/10,1/10)
(88/10,73/10)
(59/10,30/10)
```

```
(96/10,65/10)
(42/10,16/10)
(62/10,16/10)
(27/10,24/10)
(81/10,70/10)
(82/10,15/10)
(59/10,50/10)
(74/10,14/10)
(15/10,2/10)
(31/10,92/10)
(87/10,71/10)
(20/10,40/10)
(31/10,69/10)
(93/10,19/10)
(95/10,52/10)
(49/10,91/10)
(17/10,44/10)
(59/10,31/10)
(60/10,38/10)
```
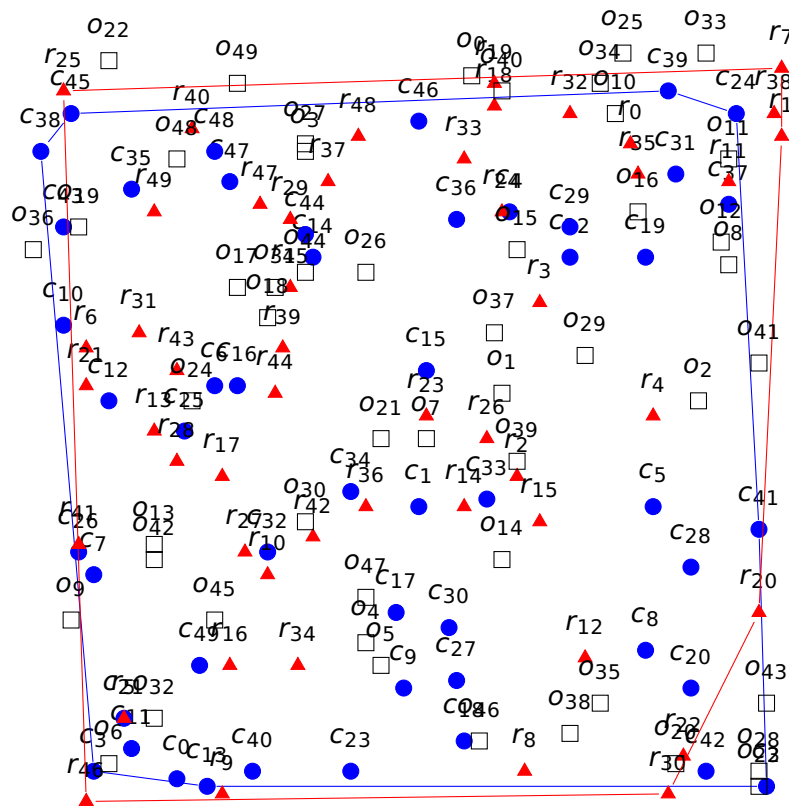
Output
Safe: 46
Robbed: 1
In danger: 3

Diagram

Input
```
50 50 50
(19/10,3/10)
(51/10,39/10)
(97/10,2/10)
(8/10,4/10)
(63/10,78/10)
(82/10,39/10)
(24/10,55/10)
(8/10,30/10)
(81/10,20/10)
(49/10,15/10)
(4/10,63/10)
(13/10,7/10)
(10/10,53/10)
(23/10,2/10)
(37/10,72/10)
(52/10,57/10)
(27/10,55/10)
(48/10,25/10)
(57/10,8/10)
(81/10,72/10)
(87/10,15/10)
(12/10,11/10)
(71/10,72/10)
```

```
(42/10,4/10)
(93/10,91/10)
(20/10,49/10)
(6/10,33/10)
(56/10,16/10)
(87/10,31/10)
(71/10,76/10)
(55/10,23/10)
(85/10,83/10)
(31/10,33/10)
(60/10,40/10)
(42/10,41/10)
(13/10,81/10)
(56/10,77/10)
(92/10,79/10)
(1/10,86/10)
(84/10,94/10)
(29/10,4/10)
(96/10,36/10)
(89/10,4/10)
(4/10,76/10)
(36/10,75/10)
(5/10,91/10)
(51/10,90/10)
(26/10,82/10)
(24/10,86/10)
(22/10,18/10)
(79/10,87/10)
(99/10,88/10)
(64/10,43/10)
(67/10,66/10)
(82/10,51/10)
(12/10,11/10)
(7/10,60/10)
(99/10,97/10)
(65/10,4/10)
(25/10,1/10)
(31/10,30/10)
(92/10,82/10)
(73/10,19/10)
(16/10,49/10)
(57/10,39/10)
(67/10,37/10)
(26/10,18/10)
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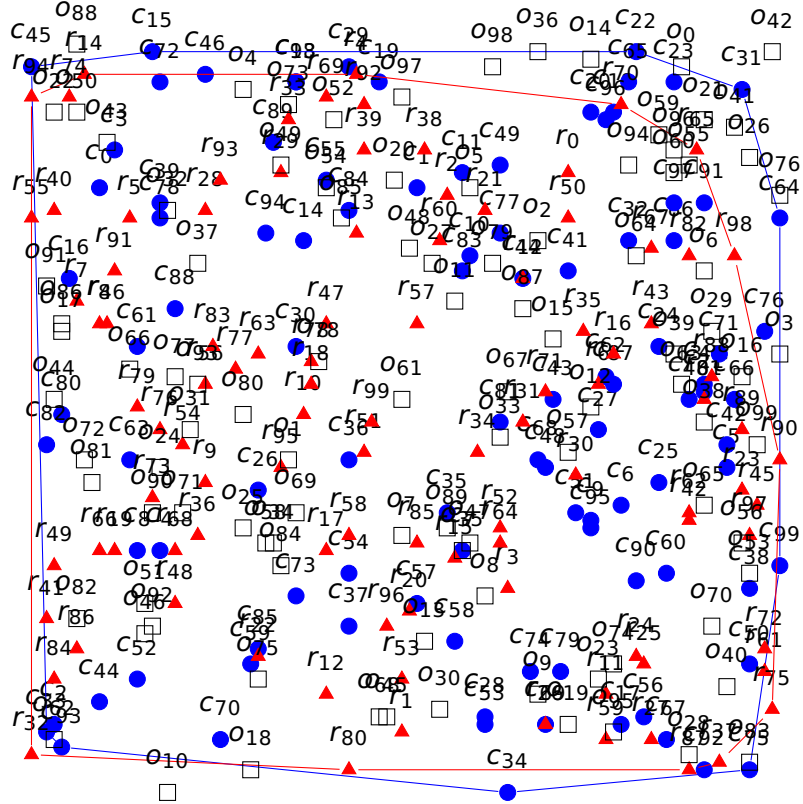
Output
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Safe:  39
Robbed:  3
In danger:  8
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▷*testJ*

Diagram

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Output
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Safe:  94
Robbed:  0
In danger:  6
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